

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number
WO 03/083113 A2(51) International Patent Classification⁷: C12N 15/11,
C07K 14/47, A61K 48/00, C12N 15/12, C07K 16/18,
14/435, A61K 38/17Regensdorf (CH). BREUER, Sebastian [DE/DE];
Pomeziasstrasse 20, 78224 Singen (DE).

(21) International Application Number: PCT/IB03/01257

(74) Agent: E. BLUM & CO., Vorderberg 11, CH-8044 Zürich
(CH).

(22) International Filing Date: 28 March 2003 (28.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/368,457 28 March 2002 (28.03.2002) US(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, ZW.(71) Applicants (*for all designated States except US*): THE
GENETICS COMPANY [CH/CH]; Wagistrasse 27,
CH-8952 Schlieren (CH). UNIVERSITÄT ZÜRICH
[CH/CH]; Rämistrasse 71, CH-8006 Zürich (CH).(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): HAFEN, Ernst
[CH/CH]; Hochstrasse 95, CH-8044 Zürich (CH).
STOCKER, Hugo [CH/CH]; Friedheimstrasse 33,
CH-8057 Zürich (CH). DARAM, Pierre [FR/CH];
Wiesenstrasse 2, CH-8307 Effretikon (CH). SCHIN-
DELHOLZ, Benno [CH/CH]; Bergstrasse 45, CH-8105

Published:

— without international search report and to be republished
upon receipt of that reportFor two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: GROWTH REGULATING PROTEINS

(57) Abstract: The application discloses a new family of proteins, namely the epsin like proteins (ELP). Said proteins comprise an ENTH domain (Epsin NH2 Terminal Homology domain) and have growth inhibiting activity. The disclosed proteins can be used for the diagnosis of hyperproliferative diseases as well as for gene therapy purposes.

WO 03/083113 A2